

**Notice of Allowability**

Application No.

10/806,475

Examiner

Angel A. Castro

Applicant(s)

ONISHI, KATSUNORI

Art Unit

2627

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_.

  
**ANGEL CASTRO**  
**PRIMARY EXAMINER**

## **DETAILED ACTION**

### ***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Allowable Subject Matter***

2. Claims 1-6 are allowed.
3. The following is an examiner's statement of reasons for allowance:

The prior art of record neither suggest nor renders obvious the instant combination in a disk apparatus comprising a metallic chassis; a disk motor mounted on the chassis for rotating a disk; an optical pickup disposed at a predetermined distance from the disk and being movable in a radial direction of the disk; a metallic shaft for movably supporting the optical pickup; a displacement motor attached to the chassis for displacing the optical pickup; and a tilting mechanism for adjusting a tilt-angle of the optical pickup with respect to the disk, the tilting mechanism including: an insulating cap attached to and covering an end portion of the metallic shaft, the insulating cap made of a resin and having insulation performance; a metallic adjusting screw attached to the chassis in such a way as to abut against a bottom surface of the insulating cap attached to the end portion of the shaft for upwardly and downwardly moving the end portion of the shaft; a shaft receiving pedestal made of a resin and attached to the chassis, the shaft receiving pedestal adapted to support the end portion of the shaft upwardly and downwardly movably, the shaft receiving pedestal having a slip-off preventing wall adapted to

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abut against an upper surface of the insulating cap for preventing the end portion of the shaft from slipping off and a support portion adapted to abut against a bottom surface of the end portion of the shaft for preventing the end portion of the shaft from downwardly moving rather than a predetermined position; and a metallic leaf spring attached to the chassis via the shaft receiving pedestal and adapted to abut against the upper surface of the insulating cap attached to the end portion of the shaft, and also adapted to push the insulating cap attached to the end portion of the shaft against the adjusting screw, and substantially U-shaped in top view as set forth in independent claim 1.

The prior art of record neither suggest nor renders obvious the instant combination in a disk apparatus comprising a chassis to which a displacement motor for displacing an optical pickup is attached; a metallic shaft for movably supporting the optical pickup; and a tilting mechanism for adjusting a tilt-angle of the pickup with respect to the disk, the tilting mechanism including: an insulating member having insulation performance, which is attached to and covers an end portion of the shaft; a metallic adjusting screw provided in such a way as to abut against the insulating member attached to the shaft; a shaft receiving pedestal for supporting the end portion of the shaft upwardly and downwardly movably; and a metallic pressing member for pressing the insulating member attached to the shaft against the adjusting screw as set forth in independent claim 2.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel A. Castro whose telephone number is 571-272-7584. The examiner can normally be reached on Monday through Thursday, 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Angel Castro, Ph.D.